

# INSIGNIA™ User Guide

## 200-Watt 5.1 Home Theater System | NS-H2002B

### INTRODUCTION

Congratulations on your purchase of a high-quality Insignia product. Your NS-H2002B represents the state of the art in home theater design and is designed for reliable and trouble-free performance.

### SAFETY INFORMATION

#### Electric shock warning



**Warning:** To reduce the risk of electric shock, do not remove the cover or back. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within your home theater's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying your home theater. Warning

**CAUTION:** To prevent fire or electric shock hazard, do not expose this home theater to rain or moisture.

**WARNING:** Your home theater should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on your home theater.

#### Ventilation

**CAUTION:** Do not block any ventilation openings. Install in accordance with these instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of your home theater and to protect it from over-heating.

The openings should never be blocked by placing your home theater on a bed, sofa, rug, or other similar surface. This home theater should not be placed in a built-in installation such as a bookcase or rack unless correct ventilation is provided or these instructions have been adhered to.

#### Laser warning

**WARNING:** This home theater uses a laser system.

To ensure correct use of this home theater, read this user guide carefully and retain it for future reference. Should your home theater require maintenance, contact an authorized service center.

Changing controls, making adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to the laser beam, do not try to open the enclosure. There is visible laser radiation when open.

Do not stare into the beam.

Laser Type: Dual semiconductor laser GaAlAs

Wavelength: 650nm and 780nm

Output Power: 7mW

Beam Divergence: 60 degree

**CAUTION:** Visible and invisible laser radiation is present when your home theater is open and interlocks are defeated.

#### Power cord

**CAUTION:** It is recommended that most appliances be placed on a dedicated circuit—a single outlet circuit powering that appliance only and one that has no additional outlets or branch circuits. Check the specification section of this guide for power requirements.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire.

Periodically examine your home theater cord, and if its appearance indicates damage or deterioration, unplug it, discontinue use of your home theater, and have the cord replaced with an exact replacement part by an authorized service provider.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits your home theater.

To disconnect power from the outlet, pull out the plug. When installing your home theater, make sure that the plug is easily accessible.

### IMPORTANT SAFETY INSTRUCTIONS

**CAUTION:** Read and observe all warnings and instructions in this user guide and those marked on your home theater. Retain this guide for future reference.

This home theater has been designed and manufactured to assure personal safety.

Improper use can result in electric shock or fire hazard. The safeguards incorporated in this home theater will protect you if you observe the following procedures for installation, use, and servicing. This home theater does not contain any parts that can be repaired by you.

Do not remove the cabinet cover or you may be exposed to dangerous voltage. Refer servicing to qualified service personnel only.

- Read all safety and operating instructions before operating your home theater.
- Keep safety, operation, and use instructions for future reference.
- Heed all warnings on your home theater and in the operating instructions.
- All operation and use instructions should be followed.
- Do not use this home theater near water. For example, do not use this home theater near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, and other areas located near water.
- Clean only with dry cloth. Unplug this home theater from the wall outlet before cleaning. Do not use liquid cleaners.
- Do not block any ventilation openings. Install in accordance with these instructions. Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of your home theater, and to protect it from over-heating.

- Do not block any ventilation openings. Do not place your home theater on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless correct ventilation is provided or these instructions have been adhered to.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other electronic devices (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, receptacles, and the point where they exit from your home theater.

- Use only attachments or accessories specified by Insignia.
- Use only with the cart, stand, tripod, bracket, or table specified by Insignia, or sold with this home theater system. Use caution when moving the cart/home theater combination via cart to avoid injury from tip-over.
- Unplug this home theater during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when your home theater has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into your unit, your home theater has been exposed to rain or moisture, does not operate normally, or has been dropped.

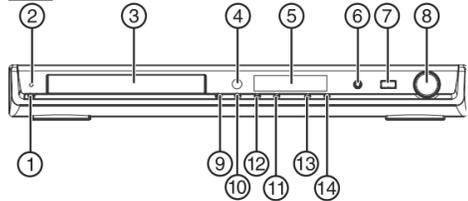
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this home theater, ask the service technician to perform safety checks to determine that your home theater is in proper operation condition.

- USA and Canada versions comply with ETL requirements.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be

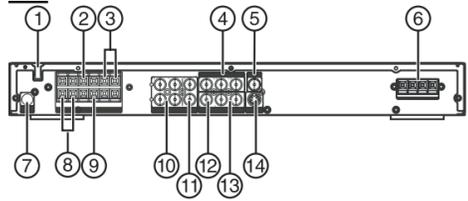
authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 or 625 progressive scan picture problems, we recommend that the user switch the connection to the "standard definition" output. If there are questions regarding our TV set compatibility with this model 525p and 625p DVD player, contact our customer service center. U.S. Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

#### Front

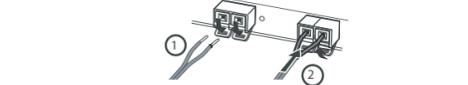


- Standby/On** - press to turn your home theater on or to standby mode
- Standby Indicator** - Power On/Off Mode: no light; Standby Mode: red LED
- Disc Tray** - place a DVD or CD, label side up, into this tray
- Infrared receiver** - receives the signal from the remote control
- VFD Display Area** - displays status messages
- PHONES** - plug standard headphones into this jack
- USB jack** - plug external USB devices into this jack
- VOLUME** - adjusts the volume. Turn clockwise to increase the volume and counter-clockwise to decrease the volume
- ▲Eject/■ Stop Eject** - opens or closes the disc loading tray in stop or no disc mode; Stop - Stops playing
- ||** Starts playback in DVD mode, 2) Pauses playback in DVD mode
- ◀▶** DVD, VCD, or CD mode: 1) press to skip to the previous chapter or track; 2) press and hold to search forward; Tuner mode - tunes channel number down
- ▶▶** DVD, VCD, or CD mode: 1) press to skip to the next chapter or track; 2) press and hold to search forward; Tuner mode - tunes channel number up
- EX BASS** - switches EX BASS to Soft Bass, Balance Bass or Powerful Bass
- SOURCE** - switches between AV mode, tuner mode, and DVD mode

#### Back



- Power cord** - plug into an electrical outlet
- Subwoofer speaker** - connect a passive subwoofer, with the colored wire attached to the + terminal and the black wire attached to the - terminal FM antenna input connections
- Front speaker** - connect the left front speaker to the L terminals and right front speaker to the R terminals. Connect the colored wire to the + terminal and black wire to the - terminal
- Component video and progressive outputs** - connect a television that has component video input. Use a component video cable.
- Digital coaxial output** - connect an external device that has a digital audio input jack.
- FM antenna input connections** - FM reception - Connect the FM antenna to the FM jack. Move the antenna in various directions until the clearest signal is received.

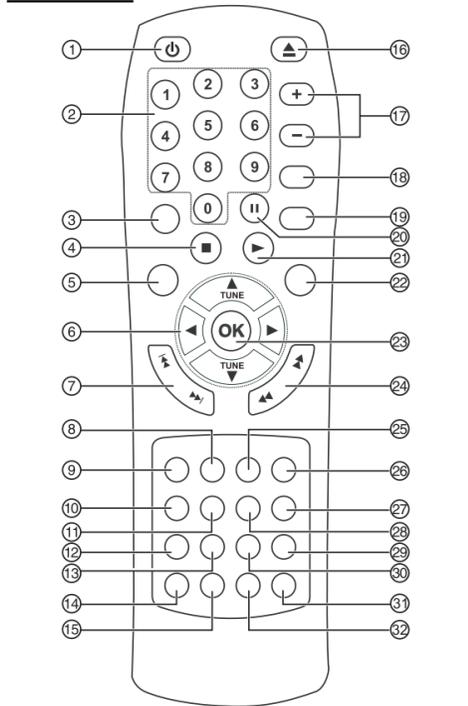


- AM loop antenna connections** - AM reception - Connect the AM loop antenna to the AM jack. Position the loop antenna to receive the clearest sound. Fully insert the stripped portion of the antenna into the terminal as shown.

**NOTE:** Position the antenna as far away as possible from a TV, VCR or other radiation source.

- Active subwoofer out** - connect an external powered subwoofer using this jack
- Surround speaker (rear speakers)** - connect the left surround speaker to the SL terminals and right surround speaker to the SR terminals. Connect the colored wire to the + terminal and the black wire to the - terminal
- Center speaker** - Connect the center speaker, with the colored wire attached to the + terminal and the black wire attached to the - terminal
- Audio inputs** - Connect audio (Left and Right) cables from a VCR, TV or satellite receiver to play them through this home theater system. These connections are labelled AV1 and AV2 and are selected by using the SOURCE button on the front panel.
- Video inputs** - connect video cables from the corresponding video out jacks on a TV, VCR or satellite receiver to play them through this home theater. These connections are labelled AV1 and AV2 and are selected by using the SOURCE button on the front panel.
- Video output (VCR)** - connect a VCR or other recording device to this jack. Most DVDs cannot be recorded, however you can use this connection to record from the auxiliary inputs such recording from the satellite receiver.
- Audio outputs (VCR)** - connect audio (Left and Right) cables to external recording devices such as a VCR or cassette recorder
- S-Video output** - Connect to the S-Video IN jack on the television using an S-Video cable. This type of connection provides superior picture quality.  
**NOTE:** Your television must be equipped with an S-Video input jack.

### Remote control



- STANDBY/ON** - Press to toggle between Operating and Standby mode.
- 0-9 (numeric keys)** DVD mode - Press to enter title, chapter, track, and time search selections. Tuner mode - Press to enter set station.
- TITLE** - Press to display the title menu if present on the disc.
- Stop** - Press to stop playing.
- MENU** - 1) DVD mode - Press to enter the Disc Contents menu. 2) PBC ON mode - Press to view a VCD disc menu.
- Active Navigation mode** - Press to navigate in the indicated directions for making selections in menus  
**Tuner Mode** - Press ▲ or ▼ to change the radio frequency  
Press ◀ or ▶ to change the radio channel
- ◀▶** - Press to skip backward or forward to the previous or next chapter or track
- BOOKMARK** - Press to open Bookmark menu
- V-SELECT** - Press to switch among the different video outputs.
- ZOOM / CLEAR** - 1) Press to select different zooming size while playing a video, 2) Press to clear the information you entered in a setup menu.
- ANGLE / PBC** - 1) Press to toggle between different angles to view (if present on disc). 2) Press to turn PBC on or off on a VCD disc.
- TUNER / AUX** - Press to select AV 1, AV 2, or tuner mode.
- DVD** - Press to select DVD mode.
- SURROUND** - Press to select different surround sound effects among STEREO PROLOGIC II MOVIE, PROLOGIC II MUSIC, CONCERT, CHURCH, PASSIVE, WIDE, and LIVE.  
**NOTE:** You can select Surround Sound Effect (DSP) only for STEREO contents (2 channels). You can not select DSP while playing back a DVD with multichannel audio content like Dolby Digital 5.1.
- SLEEP** - Press to activate a sleep timer for your home theater to go into standby mode automatically
- ▲OPEN/CLOSE** - Press to open or close the disc tray
- VOL +** - Press to increase or decrease the volume
- MUTE** - Press to mute and unmute the sound output
- INFO** - Press to display current information about disc that is playing
- Pause** - Press to freeze the picture and stop the sound during playback
- Play** - Press to start playing
- SETUP / EXIT** - Press to enter or exit the System Setup menu
- OK** - Press to enter or select a value in a menu and setup navigation
- ◀▶** - Press to search backward or forward
- SUBTITLE** - Press to toggle between different subtitles
- AUDIO / FM ST** - 1) DVD mode - Press to change to a different audio stream, 2) Tuner mode - Press to select Mono or Stereo.
- ROTATE** - Press to rotate the picture
- GOTO** - Press to start play at a specific location on a DVD, CD, VCD, or SVCD disc
- PLAYMODE** - Press to display Playmode Menu to select a different play mode
- A-B** - Press to setup repeat playback or to clear repeat playback
- EX BASS** - Press to turn EX BASS to Soft Bass, Balance Bass, or Powerful Bass
- TONE** - Press to select an EQ modes from FLAT, ROCK, POP, CLASSIC, and JAZZ

### Setting up your DVD home theater system

#### Unpacking your DVD Home Theatre System

Your box includes the following:

- One DVD Home Theatre System
- This user guide
- One AV Cable
- Two rear speakers
- One subwoofer
- One remote control with two batteries
- Quick installation guide
- AM and FM Antennas
- Two front speakers
- One center speaker

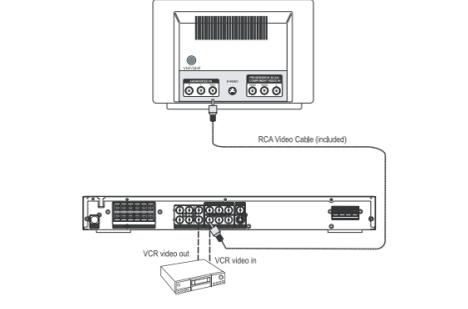
#### Connecting your DVD Home Theater System

The following setup and installation illustrations show various video and audio connections to TV and VCR.

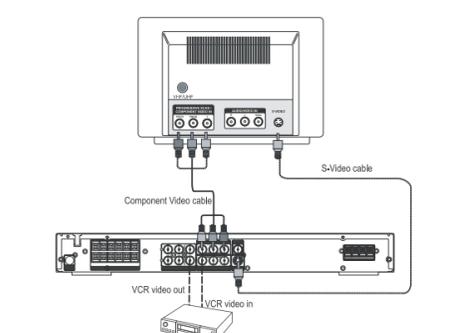
**CAUTION:** Make sure that the AC Voltage matches your local voltage. Connect the AC cord only after the speakers, antennas, and all optional equipment have been connected.

### 1 Connect the video

For a good picture quality, use the RCA video cable.

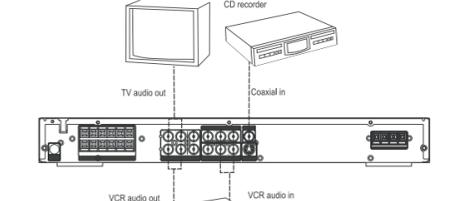


For a higher quality picture, purchase an S-Video cable, or for the best picture quality, purchase a component video cable.



**NOTE:** When in AV1 or AV2 mode, only composite video sources have a video output signal. Connect only the RCA video cable to your television set.

### 2 Connect the audio

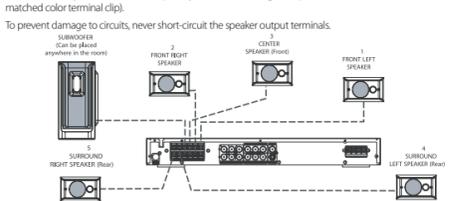


### 3 Connect the speakers

**NOTE:** This DVD home theater system is designed to reproduce optimum sound quality when the supplied speakers are used. If you want to connect speakers other than the ones supplied, they should be 6 ohms impedance for the speakers and 3 ohms impedance for the subwoofer.

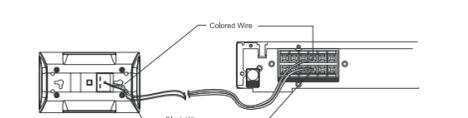
Make sure that you use the correct polarity when connecting the speakers (colored wire connects to the matched color terminal clip).

To prevent damage to circuits, never short-circuit the speaker output terminals.



#### To connect the speakers:

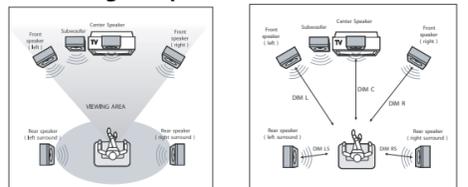
Press the speaker terminal clip down and insert the wire, then release the clip.



Connect all speakers in the same manner.

- CAUTION:**
  - Do not remove too much insulation from the wire cables to avoid the stripped portions from touching each other. The optimal length for the stripped part should be around 1/3 inch (or 1cm).
  - Do not push the stripped part too far into the speaker connectors.

### Positioning the speakers



Where you place the speakers plays an important role in the reproduction of surround sound effect.

Pay particular attention when designing the speaker layout. For the best surround effects, all speakers should be installed.

A typical room layout has the left, center, and right speakers placed across the front and the left surround and right surround speakers placed along the sides towards the rear as shown in the above left picture. Position the center speaker above or below the video screen or TV. Install a subwoofer can be (for powerful bass sounds) anywhere in the room.

The speaker to listener dimensions (DIM) shown in the above right picture is used for correct setup of the surround system. For more information, see "Setting up the speakers".

- Do not connect more than one speaker to any one pair of +/- speaker terminals
- Do not connect speakers with an impedance lower than the speakers supplied

### Installing your DVD home theater system

- Install your home theater on a stable flat surface. There must be sufficient room in front of your home theater for the disc tray to open. Position your home theater so that it can have a direct line of signal to the remote control.
- Do not expose your home theater to extremes of temperature or humidity.
- Avoid placing your home theater on a hot surface such as on top of other hot running equipment. Make sure that there is adequate ventilation to your home theater.

**CAUTION:** Do not install this home theater in a confined space such as a bookcase.

**Note:** Connect the AV cord only after the speakers, antenna, and all optional equipment have been connected. Never make or change any connections with power turned on.

### Maintaining

- Picture freezing, sound skipping, or repeating can occur if the disc inside the player is dirty.
- When a disc gets dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not wipe in a circular motion. Circular scratches can cause picture distortion or render the disc unplayable.

**CAUTION:** Do not use solvents, commercially available cleaners, or antistatic spray intended for analog discs.

### Turning on your DVD home theater system

To start your home theater the first time:

- Plug in your home theater. The standby indicator on the front panel lights up.
- Press **Standby/On** (on your home theater or on the remote control). After a few seconds the display shows NO DISC.
- Turn on your television and select the AV input that your home theater is connected to.
- Press **Eject** (on your home theater or on the remote control). The disc tray opens.
- Place a DVD in the disc tray, then press **Eject**. The player reads the disc and starts playback. Before the movie starts to play, a menu appears.
- Select **PLAY MOVIE** and press **OK**. The movie starts.
- Although you can watch a movie immediately, to get the best results from your home theater, press **STOP**.
- Complete the following system setup options. This sets up all the functions on your home theater. You only need to do this when you first set up your home theater.

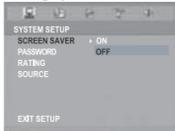
### Basic setup

To complete basic setup:

- Press the **SETUP / EXIT** button to enter the System Setup Menu.
- Press ◀ or ▶ to navigate to one of these menus:
  - System Setup
  - Language Setup
  - Audio Setup
  - Video Setup
  - Speaker Setup
- When any menu is highlighted, press ▲ or ▼ to select different settings under the menu. Available options for each setting appear on the right side of the screen.
- Press ▶ or **OK** to move to the right column.
- Press ▲ or ▼ to select a new setting, then press **OK** to confirm the changed setting.
- Repeat steps 3 to 5 to change the other settings.
- Press ◀ to return to the previous menu.
- Press ▲ to return to the main menu.
- Repeat steps 2 to 8 to change all settings.
- After you have finished making the changes, highlight **EXIT SETUP**, press **OK** -OR- Press **SETUP / EXIT** again to exit Setup Menu.

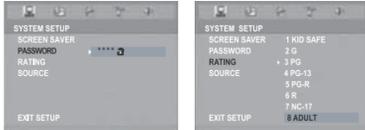
#### Setting details

##### Setting up the screen saver



Use this setting to turn the screen saver option on or off. If you turn the screen saver on, the screen saver image appears when you leave your home theater in Pause or Stop mode more than five minutes. This saver can protect the television screen from being damaged.

##### Setting a password and rating level



Many DVD movie discs contain Motion Picture Association rating codes. This home theater system recognizes the codes on these DVDs. Your home theater provides a method for you to prevent children from viewing films which you deem are not suitable or find objectionable.

- KID SAFE:** Content is safe for children.
- G:** Recommended as acceptable for all ages.
- PG:** Parental Guidance is suggested.
- PG-13:** Material may not be suitable for children under age 13.
- R:** Parents should restrict children under 17 from viewing this material or let them view the material only when supervised by a parent or adult guardian.
- NC-17:** Not recommended viewing for children under age 17.
- Adult:** Should be viewed only by adults due to graphic sexual material, violence, or language.

To set the rating:

- In the System Setup menu, press ▲ or ▼ to highlight **Rating**, then press ▶.
  - Press ▲ or ▼ to highlight a rating level, then press **OK**.
  - Press ▲ or ▼ to highlight Password, then press **OK**.
  - Use the numeric keys (0-9) to enter a four-digit password. If you make a mistake before pressing **OK**, press **CLEAR**.
  - Enter your four-digit security code again.
- DVD discs that are rated above the level you selected will not play unless you enter correct the four-digit password.

Parental lock is NOT active

The Parental lock is active

- Notes:**
  - The parental lock must be active for the rating level to function
  - The parental lock must not be active to change the rating level
  - If you forget the password, enter 76418 while the player is in NO DISC mode

#### Selecting the playing source



Select the source files that you want to play between Disc and USB. To access files in a USB device, make sure your USB devices is connected to the USB jack on the front panel.

- Notes:**
  - This unit can not support NTFS format. If the USB flash drive does not work on it. Please check the USB flash drive file system and format it with FAT or FAT32.
  - Not all MPEG 4 files can be played through the USB jack due to the limited transmission speed

#### Selecting languages for menus

You can select different languages for the Setup Menu. You can also select different languages for audio, subtitle, and menu recorded on the DVD.



- OSD LANG:** Select the Setup menu language.
- AUDIO LANG:** Select the audible language heard during playback.
- SUBTITLE LANG:** Select the subtitle language displayed on the television screen.
- DISC MENU:** Select the disc menu language.

**Note:** If the selected language is not recorded on the disc, the disc's default language is selected automatically.

#### Setting up the volume



#### To set the volume on a speaker:

- Select **Volume Setup**, then press **OK**. You will hear the calibrating sound from the front left speaker for a few seconds. This sound then move from speaker to speaker as follows:
  - Front Left
  - Center
  - Front Right
  - Subwoofer
  - Rear Left
  - Rear Right
- If the calibrating sound is either too soft or too loud, exit Volume Setup, then adjust the volume control until the calibrating sound is clearer. Let the calibrating sound cycle through all the speakers at least once.
  - If the calibrating sound level from all speakers is approximately the same, no further adjustment is necessary.
  - If any speaker sound level appears unbalanced to the rest, you can increase or decrease the level of the speaker by pressing ▲ or ▼ to increase or decrease the speaker level when that speaker is highlighted.

When you have completed the level adjustments, press **OK** to exit the Volume Setup and return to the previous menu.

**NOTE:** We recommend to set Volume = 30 before entering this Volume Setup to further calibrating any unbalance speaker level output.

**NOTE:** Speaker volume can also be changed in AV mode. Movies or music on the connected VCR will play through this home theater.

Press **SETUP/EXIT** once. **FL** (front left) is displayed on the VFD. Press ◀ or ▶ to select the speaker you want to change the volume of. **FL** (front left), **FR** (front right), **SL** (surround left), **SR** (surround right), **CEN** (center), or **SUB** (subwoofer).



- When a speaker has been selected, press ▲ or ▼ to increase or decrease volume -10 DB to +10 DB.

#### Turning on the dynamic range



Dynamic Range Control enables you to control the dynamic range to achieve a suitable sound for your home theater.

**ON:** Loud sounds, such as explosions, are turned down slightly during playback.

**OFF:** Your home theater plays at the recording level on the disc.

#### Specifying the type of digital audio



Choose the type of digital audio output that matches the audio connection between your home theater and the external digital audio decoder.

**SPDIF/RAW:** Outputs the audio stream in original unencoded format.

**SPDIF/PCM:** Outputs the audio stream in decoded PCM format.

#### Modifying the Prologic II setting

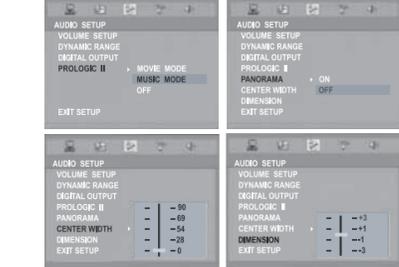


The Dolby Pro Logic II Surround System is a specially encoded two channel analog format which reproduces five channel output when a Dolby Pro Logic II Decoder is used.

**MOVIE MODE:** Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete.

**MUSIC MODE** Music mode is for use with any stereo music recordings, and provides a wide and deep sound spacing. The Music mode includes different controls that let you tailor sound to your individual listening preference.

**Modifying additional audio settings**



Panorama, center width, and dimension are available only when the player is in Music Mode. These options let you customize the ProLogic II Music Mode Sound Effect.

**PANORAMA** Extends the front stereo image to include the surround speakers for an exciting wraparound effect with side-wall imaging.

**CENTER WIDTH:** With ProLogic decoding, dominant center signals can come only from center speaker. If no center speaker is present, the decoder splits the center signals equally to the left and right speakers to create a phantom center image. The Center Width allows variable adjustment of the center image so it may be heard only from the center speaker; only from the left and right speakers as a phantom image; or from all three front speakers to varying degrees.

**DIMENSION:** A control that alters the ratio of L-R to L-R for the two-channel input signals. It let you gradually adjust the sound field either towards the front or towards the rear. If a recording is too spacious or strong from the surrounds, it can be adjusted forward to get a better balance. Likewise, if a stereo recording is somewhat too mono or narrow sounding, adjusted it toward the rear to get a more enveloping, immersing result.

**Specifying the video output**



Choose the type of video output that matches the video connection between your home theater and the television.

**480i YPBPR** Select this if you have connected your home theater to your television using the Y, Pb, Pr video jacks and are not using the progressive scan feature.

**P-SCAN YPBPR** Select this if you have connected your home theater to your television using the Y, Pb/Pr video jacks and are using progressive scan feature.

**S-VIDEO** Select this if you have connected your home theater to your television using S-Video jack.

**Specifying the television type**



- 43 PS** Select this when your home theater is connected to a normal television. Widescreen images are shown on the screen, but with some parts automatically cut off.

- 43 LB** Select this when your home theater is connected to a normal television. Widescreen images are shown on screen, with black belts on the top and bottom.

- 16:9** Select this when your home theater is connected to a wide-screen television.

**Notes**

- The actual playing effect depends on the picture recorded on the disc. Some discs may not play depending on your selection in this option.
- A disc recorded in 4:3 mode will only play in 4:3.
- The TVTYPE should correspond to the television screen.

**Setting up the speakers**



If the center speaker is placed close to the front speakers, choose CENTER DIST. to set the Center distance value to a smaller number to achieve the best listening effect.

If the surround speakers are placed closer to the listening position than the front speakers, choose REAR DIST. to set the rear distance value to a larger number to achieve the best listening effect.

## Using your DVD home theater system

**Playing discs**

You can play the following discs on your home theater:

- DVD-Video

**Note** For the purpose of distribution of DVD Discs, the world has been separated into six zones. The zone your unit is intended for is indicated on the Zone Label. This should be the same as the label on discs available in your region. If you have any difficulties in playing a disc, make sure that the disc is for the same zone as your home theater.

- DVD-R, DVD-RW, DVD+R and DVD+RW

DVD-R and DVD-RW discs must be made in Video DVD mode. DVD+RW disc must be made in accordance with the specifications for DVD+RW disc with a 4.7 GB capacity.

- Video CD (VCD)
- Super Video CD (SVCD)
- Audio CDs

- CD-R and CD-RW

This player can play most CD-R and CD-RW discs. However depending on the recording conditions, you may find that not all discs will play successfully.

- MP3 Files on CD-R or CD-RW

MP3 files should be ISO 9660 or JOLiet format. If the sampling frequency is 44.1 or 48.1KHz, and the fixed bit rate is 128Kbps or higher, MP3 files can be played. However, some files may not play depending on their conditions or formats.

- WMA Files on CD-R

If the sampling frequency is 32KHz, and the fixed bit rate is 128Kbps or higher, WMA files can be played. However, some files may not be played depending on their conditions or formats.

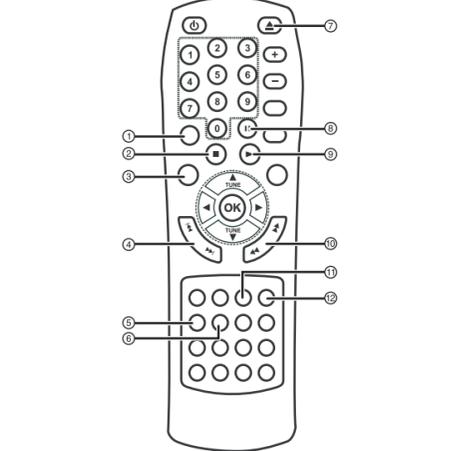
- JPEG Files on CD-R or CD-RW

This player can play JPEG files with a resolution for up to five million pixels. Certain JPEG files cannot be read by this player.

- MPEG 4 Files on CD-R or CD-RW

Your MPEG 4 files should be ISO format without QPEL.

## Playing a DVD, VCD, or CD



- TITLE** - Press to display the Title Menu if present on the disc. This feature works for DVD playback only.
- Stop**
- Press **■** once to stop the current playback instantly and enter the Resume Play mode.
- Press **▶** to resume playback from the point at which you last stopped the disc.
- Press **▶▶** twice to stop playback completely. You cannot resume playback.
- Press **▶▶▶** to start playback from the beginning of the disc
- MENU** - Press to display the Disc Menu.

**Note:** Playback stops to display the menu. The button does not work for CD playback. For VCD, this button is only available when PBC is set to on.

- ◀◀/▶▶▶** - Skip to the beginning of a chapter or track.
- When a disc is playing, you can skip backward or forward a chapter or track.
  - Press **◀◀** to skip to the beginning of the previous chapter or track.
  - Press **▶▶▶** to skip to the beginning of the next chapter or track.
- MENU** - Press to display the Disc Menu.

**Note:** For audio CD discs, use the numeric buttons (0 - 9) to directly jump to a track number.

**Note:** When operating a VCD with the PBC function, the PBC should be set to OFF.

- ZOOM** (To Zoom In the Image) - Press to magnify pictures during playback.
  - When a disc is playing, press the **ZOOM / CLEAR** button. Each time ZOOM CLEAR button is pressed, the ZOOM settings are changed as follows:
    - ZOOM x 2
    - ZOOM x 3
    - ZOOM x 4
    - ZOOM x 3/4
    - ZOOM x 2/3
    - ZOOM x 1/2
    - ZOOM : OFF
- While an image is magnified, you can use the **▲, ▼, ◀, ▶** keys to shift image for viewing.

To return to the original normal view, press the ZOOM key until the ZOOM : OFF symbol shows. The screen returns to normal.

- When you reach the edge of the image, the display will not shift anymore in that direction.

- ANGLE** - Press to change the viewing angle in DVD. You can select different angles of viewing when playing a DVD video disc that contains scenes recorded from multiple angles.
  - Press **ANGLE** repeatedly to select different angles of viewing if available on the disc.

This function is only available when the scenes shot from multiple angles have been recorded on the DVD. If multi-angle viewing is not available, **OFF** is displayed.

- ▲(Open / Close)** - Press to open the disc tray.

**Note:** Load the disc on the disc tray with disc label facing upward.

- Press **▲** again to close the disc tray. The home theater starts playback automatically.
- || Pause** - You can freeze the image and advance frame-by-frame.
- CD: Press **||** to pause the playback. Press **||** again or press **▶** to resume the normal playback.
- DVD / VCD: Press **||▶** to pause the playback. Press **||** again to go to STEP mode. Each time you press **▶**, the video advances one frame.

- ▶ Play** - Press **▶** to start playback.
- ◀◀/▶▶▶** (search backward or forward, slow motion)
- Press **◀◀/▶▶▶** to search backward or forward. Press to resume playback. Each time **◀◀** or **▶▶▶** or is pressed, the speed of backward or forward search changes accordingly.

- In Pause mode, press **◀◀/▶▶▶** to start forward or backward slow motion play.
- Each time **◀◀** or **▶▶▶** or is pressed, the speed of slow-motion playback changes accordingly. Press **▶▶▶** to resume normal playback.

**Note:** Slow motion step-by-step does not work with CD Playback. Backward slow motion does not work with VCD playback.

- SUBTITLE** - Press to change a different subtitle language available on the disc.

During playback, you can change to a different subtitle language or disable subtitles. When a disc is playing, press **SUBTITLE** to show the current playback language subtitle.

**▶**: [ 3 ENGLISH ]

Press repeatedly to select the desired subtitle language.

**Note:** This function can only be used for disc on which different subtitle languages have been recorded. The number of languages recorded may be different depending on the disc.

- AUDIO / FM ST** - Press to change to a different audio language on the disc during playback. You can change audio language or audio output.

When a disc is playing, press **AUDIO / FM ST** to show the current playback audio track number.

**▶**: [ 1 X2CH ]

Press repeatedly to select the desired audio track.

**Note:** If there is only one audio track available on the disc, the number does not change.

## Advanced DVD, VCD, and CD playback

### 1. Using the INFO function

- While the disc is playing, press **INFO** to display playback information present on the disc.

**To view DVD playback information**

- Press **INFO** to display DVD playback information.

**1.1 TT (title info)** - Displays the currently playing title number and the total number of titles recorded on the disc.

**1.2 CH (chapter info)** - Displays the currently playing chapter number and the total number of chapters recorded on the disc.

**1.3 Elapsed Time** - Displays the elapsed time from the beginning of the title playback.

**1.4 Audio** - Displays the audio track currently selected.

**1.5 Subtitle** - Displays the language (subtitle) number currently selected.

**1.6 Angle** - Displays the viewing angle currently selected. When a disc without multi-angle is played back, **OFF** is displayed.

- 1.7 TRK (track info)** - Displays the currently playing track number and the total number of tracks recorded on the disc.
- 1.8 Unmute Icon** - Displays when the sound is unmuted.
- 1.9 Repeat Mode** - Displays any repeat mode that is set.

**Note:** After checking the settings, press **INFO** again to turn off the display.

### 2. Using the GOTO function

This function lets you directly select any point of the disc to start playback.

**2.1 Select a specific title, chapter, or track**

You can select any specific title, chapter, or track by number to start playback.

- Press **GOTO**.
- Press **◀** or **▶** to highlight a title, chapter, track and press the corresponding numeric key 0 - 9.
- Press **OK** to confirm. Your home theater starts playback from the position you select.

**Note:** Press **CLEAR** to reset the highlighted title, chapter, or track.

- 2.2 Locating a specific time**
- You can select any specific location by directly entering the time in hours, minutes, and seconds.
- Press **GOTO**.
  - Press **◀** or **▶** to highlight time.
  - Directly key in the time to start playback using the numeric keys 0 - 9.
    - The first two digits are the hours.
    - The next two digits are the minutes.
    - The last two digits are the seconds.
  - Press **OK** to confirm. Your home theater starts playback from the time you select.

**Note:** Press **CLEAR** to reset the highlighted time.

- 3. Programming Playback**
- Press the **PLAYMODE** button.
  - When the MODE state is highlighted, use **◀** or **▶** to select PROG mode.
  - Press **OK** to confirm.

**Note:** During VCD and SVCD playback, the function is only available when PBC is 3.1 DVD programming

- 3.1 DVD programming**
- 
- Press repeatedly to select the desired audio track.

**Note:** This function can only be used for disc on which different subtitle languages have been recorded. The number of languages recorded may be different depending on the disc.

**11. SUBTITLE** - Press to change a different subtitle language available on the disc. During playback, you can change to a different subtitle language or disable subtitles. When a disc is playing, press **SUBTITLE** to show the current playback language subtitle.

**▶**: [ 3 ENGLISH ]

Press repeatedly to select the desired subtitle language.

**Note:** This function can only be used for disc on which different subtitle languages have been recorded. The number of languages recorded may be different depending on the disc.

- AUDIO / FM ST** - Press to change to a different audio language on the disc during playback. You can change audio language or audio output.

When a disc is playing, press **AUDIO / FM ST** to show the current playback audio track number.

**▶**: [ 1 X2CH ]

Press repeatedly to select the desired audio track.

**Note:** If there is only one audio track available on the disc, the number does not change.

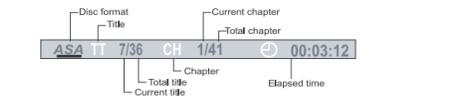
## Advanced DVD, VCD, and CD playback

### 1. Using the INFO function

- While the disc is playing, press **INFO** to display playback information present on the disc.

**To view DVD playback information**

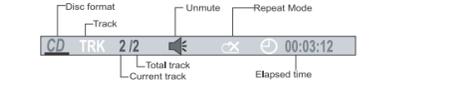
- Press **INFO** to display DVD playback information.



- Press **INFO** twice to check the remaining time of current chapter.
- Press **INFO** thrice to check the playing time of current title.
- Press **INFO** four times to check the remaining time of current title.
- Press **INFO** five times to display more playback information.

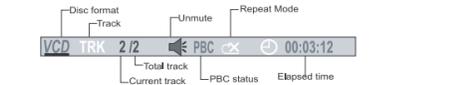


**To view CD playback information**



- Press **INFO** to display CD playback information.

**To view VCD playback information**



- Press **INFO** to display VCD playback information.
- Press **INFO** twice to check the remaining time of current track. (CD/VCD)
- Press **INFO** thrice to check the playing time of current disc. (CD/VCD)
- Press **INFO** four times to check the remaining time of current disc. (CD/VCD)

The following describes information you may see when pressing **INFO** during DVD, CD, or VCD playback.

**1.1 TT (title info)** - Displays the currently playing title number and the total number of titles recorded on the disc.

**1.2 CH (chapter info)** - Displays the currently playing chapter number and the total number of chapters recorded on the disc.

**1.3 Elapsed Time** - Displays the elapsed time from the beginning of the title playback.

**1.4 Audio** - Displays the audio track currently selected.

**1.5 Subtitle** - Displays the language (subtitle) number currently selected.

**1.6 Angle** - Displays the viewing angle currently selected. When a disc without multi-angle is played back, **OFF** is displayed.

**1.7 TRK (track info)** - Displays the currently playing track number and the total number of tracks recorded on the disc.

**1.8 Unmute Icon** - Displays when the sound is unmuted.

**1.9 Repeat Mode** - Displays any repeat mode that is set.

**Note:** After checking the settings, press **INFO** again to turn off the display.

### 2. Using the GOTO function

This function lets you directly select any point of the disc to start playback.

**2.1 Select a specific title, chapter, or track**

You can select any specific title, chapter, or track by number to start playback.

- Press **GOTO**.
- Press **◀** or **▶** to highlight a title, chapter, track and press the corresponding numeric key 0 - 9.
- Press **OK** to confirm. Your home theater starts playback from the position you select.

**Note:** Press **CLEAR** to reset the highlighted title, chapter, or track.

- 2.2 Locating a specific time**
- You can select any specific location by directly entering the time in hours, minutes, and seconds.

- Press **GOTO**.
- Press **◀** or **▶** to highlight time.
- Directly key in the time to start playback using the numeric keys 0 - 9.
  - The first two digits are the hours.
  - The next two digits are the minutes.
  - The last two digits are the seconds.
- Press **OK** to confirm. Your home theater starts playback from the time you select.

**Note:**

- Some discs may not let you use this function.
- Some scenes may not be located as precisely as you specified.
- This method for accessing the specific location is available only within the current title of the DVD disc.
- Press **CLEAR** to reset the time when the time is highlighted.

### 3. Programming Playback

- Press the **PLAYMODE** button.
- When the MODE state is highlighted, use **◀** or **▶** to select PROG mode.
- Press **OK** to confirm.

**Note:** During VCD and SVCD playback, the function is only available when PBC is 3.1 DVD programming

- 3.1 DVD programming**
- 
- Press repeatedly to select the desired audio track.

**Note:** This function can only be used for disc on which different subtitle languages have been recorded. The number of languages recorded may be different depending on the disc.

- AUDIO / FM ST** - Press to change to a different audio language on the disc during playback. You can change audio language or audio output.

When a disc is playing, press **AUDIO / FM ST** to show the current playback audio track number.

**▶**: [ 1 X2CH ]

Press repeatedly to select the desired audio track.

**Note:** If there is only one audio track available on the disc, the number does not change.

- Enter the track numbers in **■**.
- Use **◀**, **▶**, **▲**, or **▼** to move to another entry.

Repeat the above steps for more inputs.

- Press **▶** or highlight **PLAY** on the screen and press **OK** to start the programmed playback.

- Highlight the current input on the screen and press **CLEAR** to delete the title chapter numbers you input.

**Note:** Highlight **CLEAR** on the PROG screen, then press **OK** to delete all inputs.

### 3.2 CD, VCD, SVCD programming

Press repeatedly to select the desired audio track.

**Note:** If there is only one audio track available on the disc, the number does not change.

- Repeat the above steps for more inputs.

- Press **▶** or highlight **PLAY** on the screen and press **OK** to start the programmed playback.

- Highlight the current input on the screen, then press **CLEAR** to delete the track you input.

**Notes**

- Highlight **CLEAR** on the PROG screen and press OK to delete all inputs.
- The function is only available when PBC is turned off.

### 4. Repeating Playback

You can play a specific title, chapter, or track repeatedly. Press the **PLAYMODE** button to access the Playmode menu.

**Note:** During VCD and SVCD playback, the function is only available when PBC is turned off.

#### 4.1 Repeat a title, chapter, track, or whole disc



- Press the **PLAYMODE** button.
- Use **▲** or **▼** to select the **REPEAT** option.
- Use **◀** or **▶** to select a different repeat mode, then press **OK** to confirm. The selected mode is highlighted on the screen.

- For DVD Disc: **OFF**, **REP**, **All**, **Chapter**, or **Title**
- For CD /VCD / SVCD Disc: **OFF**, **REP**, **1**, or **REP All**
- For MP3 / JPEg / WMA Disc: **OFF**, **REP**, **DIR**, or **REP 1**

#### 4.2 Repeat a specific section

- While the disc is playing, press **A-B** to set the beginning of the section you want to play repeatedly.

**REPEAT A-**

- Press **A-B** again to set the end of the section you want to play repeatedly. Your home theater immediately begins replaying your selection repeatedly.

**REPEAT A-B**

- Press **A-B** again to clear the programmed repeat playback and return to the normal playback.

**A-B CANCEL**

**Notes**

- The A-B repeat function can only be used within the same title. If the start and end of the section to be repeated are in different titles, it will not work.
- The A-B repeat function does not operate in scenes where different camera angles are recorded.

### 5. Using PBC (VCD and SVCD playback control)

- When a VCD or SVCD is playing, press **PBC**(Playback Control) repeatedly to toggle between **PBC** on and **PBC** off